Weekly Bureau of Information for All Who Till the Soil or Are Interested in Making Homes

BRIEF NOTES THOUGHT

INJURIOUS PLANT DISEASES

Early and careful selection of seed corn will easily increase the pros-pective yields for next year five bushels per acre.

While grass is necessary to a fowl's proper condition, it is not fair to expect a hen to live on grass alone.

In buying a farm, select good land. even if you cannot afford to but more than twenty acres.

Backyard poultry-raising is no longer an experiment. Its success has been demonstrated time and again; in fact, it is carried on in many climes and under various conditions, and its popularity has just fairly started.

Fruit growers who have to employ pickers cannot be too careful in select-ing their help. Do not tolerate care-less, indifferent pickers. There are plenty who really enjoy this kind of

The determining factor in the yield of a good variety of corn is not the size of the ear, but rather the strength of the whole plant and the percentage of stand secured.

It is said that 90 per cent of the normal bird life of this country already has been destroyed, and much of the other 10 per cent will go in the next five years unless strong measures are employed to stop the slaughter.

Early maturity of the lamb is where the big profit comes in in raising them for the market. It's another case of "the early bird catches the worm."

The better you seed wheat, the better your crop next year. It is a great mistake to sow small, shrunken or otherwise defective seed.

Young clover should never be pastured, as the tramping of the cattle will compact the soil so hard as to kill out most of the plant.

Some of the things that cause the failure of potato hills are poor soil, improper preparation, poor seed, irregular planting, poor cultivation, bugs, diseases and poor weather. Many of these conditions are controlable; all of them may be influenced by proper methods of culture.

BAD INSECTS IN

BIN AND GRANARY

Professor George A. Dean writes: Of the twelve or thirteen species of beetles attacking stored grains, not more than five or six are commonly found at work in the farmers' bins. To these may be added four species of small moths, of which the Angou-mols grain moth is the most serious pest attacking ripened corn, and the meal moth and the Mediterranean flour moth the serious ones in meal, bran, or any of the ground grain products. The farmer applies the term "wevil" to all of these insects. The measures to be employed in the control of these insects are both preventive and insecticidal. tive and insecticidal.

As a preventive measure, all the old grain should, before the new crop is stored, be removed and the floors, walls and cellings of the bins thoroughly cleaned. If the grannry has been badly infested, it should be fumigated. Cleanliness is very important in preventing injury by these insects. Dust, dirt, rubbish, refuse grain, flour and meal serve as breeding places. Frequent agitation or handling of the grain will destroy many of these moths, because they are unable to free themselves from a mass of it and perish in the attempt.

Fortunately, it matters little what species may be causing the trouble, for all succumb to the same treatment.

one pound of carbon bisulphide is sufficient for every 700 cubic feet of space, or one pound for every 100 bushels of grain.

The building and bins must be made as nearly air-tight as possible in order that the vapor may remain in all parts of the space in full strength and parts of the space in full strength and for the required time. The vapor must enter all cracks and crevices by diffussion. The doors and windows should be arranged so they can be opened from the outside when fumigation is completed. Care should be taken to have everything ready and in its place, so that after the first vessel has received its liquid it will be unnecessary to stop to adjust anything. Everything should be done to avoid unnecessary delays and to facilitate the rapid evaporation of the liquid.

The liquid should be placed in shal-The liquid should be placed in shal-low pans or dishes as high as possible in the bins or building, since the va-por is heavier than air and settles to the lower parts. It should be well dis-tributed, having not more than a half

pound in a place.

If a building of more than a half pound in a place.

If a building of more than one floor is to be fumigated, the operator should begin on the first floor and work upward, and after placing the liquid in the second story, leave the building through a window that he can close after him. If impossible to get out from the upper story, the car-bon bisulphide should first be distrib-uted there, working downward as rapidly as possible to avoid the settling

vapor.

The bins or building should be allowed to fumigate from twenty-four to thirty-six hours. Doors and win-dows should be opened wide and the building or bins aired thoroughly one or two hours beore entering.

The vapor of this liquid is highly inflammable and explosive. No fire or light of any sort should be allowed about the building while the fumigation is in progress. The application should always be made in daylight, for artificial light of any kind is dangerous. Electric lights must not be used, since when turning them on or off there is always danger of producing a spark. Nor is it safe to have heat of any kind in the building while the fumigation is in progress.

A Bran Mash.

A bran mash, once a week, is a renovation for the driving horse. Two quarts of shelled oats and the same quantity of wheat brand, scalded about midday and then covered with a blanket or cloth, to keep in the steam, add a pinch of salt and feed at night. Give no other grain with this mash, but, of course, the regulation ration of hay. This once-a-week mash, given hay.

OUT BY THE WAYSIDE That they may be much more serious in some localities than others, and upon some plants than on others, is equally true. In some sections it may be said that they are most injurious on cane fruits, especially red raspberries. In other parts of the country they frequently prove very injurious to peach,



Crown Gall on Cherry. cherry and sometimes to apple trees Certain varieties of grapes and berries are also more susceptible than The disease is not necessarily fatal, but diseased trees are frequently more or less stunted, and sometimes die from the effects of this disease. The root system of many varieties will be imperfect and the trees can be readily blown out by storms, and cannot produce the maximum cron of fruit produce the maximum crop of fruit.

GENERAL INFORMATION THROUGH QUESTION BOX

R. L. D., Bedford County: The orchard must have nitrogen and a good way to supply this is to sow a catch or cover crop at the last cultivation say oats or crimson clover, or both.

When the cream is too thin to whip add the unbeaten white of an egg. You will then have no trouble whip-

By the Carlond. D. H. G., Albermarle County: A carload of lambs weighs about 18,500 pounds. It is the custom of the rail-roads to charge for a minimum of 20,-000 pounds, and they can give you a plausible reason for it; but your road is trying to encourage sheep-raising, and it is likely that if you will confer with the proper officer or agent you can get this apparent injustice

Lock jaw.

F. M. H., Orange County: For lock-jaw in a beast—or a man either as for that matter—Dr. Gray, a famous veternarian, says give the half of a 5-cent package of smoking tobacco in a gallon of hot water. Cool and in-ject per rectum ject per rectum.

Winter Food for Chickens J. B. B., Halifax County: What is considered a good food (green) for poultry for the winter months? The following green foods have proven practical for winter feeding: cabbage, clover, alfalfa, mangels, sprouted oats, turnlps and pumpkins.

As to Hen's Ages.
Mrs. L., Charlotte County: Is it ad-

Facts for Farmers, Stocy Breeders, Poultry Raisers, Orchardists, Truckers and Gardeners---Queries and Answers

PROFITABLE FLOCK OF SHEEP

The small farmer should always animals are one of the most profitable investments that he can handle. The following is an account of the proceeds derived from a flock of thirty-five grade Shropshire ewes in one season in Virginia:

son in Virginia:

This flock received no special attention, so far as feed and care were concerned, although, of course, at lambing time they were well looked after. The ewes that did not take to their lambs naturally were induced to nurse them if possible, if not, then these neglected lambs were raised on the lattle but in the extra flect.

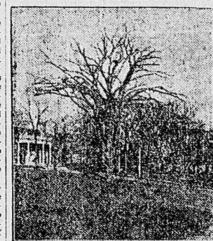


A Small But Excellent Flock of Pure-Bred Virginia Sheep, Showing a Marked Degree of Uniformity.

produce a much smaller crop than years? lealthy trees. Such trees will occa- From

"STAGHEAD" OF SHADE AND FRUIT TREES

Very frequently apple trees and some varieties of shade trees are seen



Elm Tree Slowly Dying, With Stag-end Effect. Note Dend, Stubby

ing fungi to gain an entrance. Once started, their growth will eventually destroy the whole tree. Severe heading back and clearing out of the dead and fungus infested wood followed by cultivation and fertilization should be fire in the cabbage patch all night; resorted to. In some instances it may all summer and the cabbage millers resorted to. In some instances it may be necessary to top-graft to renew the resorted to. In some instances it may be necessary to top-graft to renew the head of the tree. The full results of such treatment do not show the first year. Great care should be taken not to leave wounds through which the spores of fungi can gain an entrance to cause future decay.

During the past few years a large number of shade trees in the North-eastern part of the United States, and also the Middle States have been affected with staghead. The trouble appears to have come chiefly from the root system, but exactly what causes it is not definitely known at the pres-

it is not definitely known at the present time.

There are many varieties of shade trees affected in this way, and this means their ultimate destruction, since those that do not die outright will never recover their tops, and are therefore, worthless as specimens of shade trees. This dying back is particularly noticeable on elms.

A characteristice feature of trees affected with staghead, more conspicuous in slowly dying trees, may be seen in the increase of the heartwood and decrease of the sapwood. The wood of the dying trees is very brittle, and

hay. This once-a-week mash given preferably Saturday night, will do your driving or riding horse all the good in the world. The work stock will also appreciate the mash, too.

decrease of the sapwood. The wood of the dying trees is very brittle, and the limbs and branches fall off easily. Old trees reaching the end of their grand period of growth, usually show driving or riding horse all the good in the work stock will also appreciate the mash, too.

The Rope Halter.

Every stockman knows how inconvenient a stiff, new rope halter can be. New rope may be made as pliable as old by boiling it for two hours in water. Then hang it in a warm room and let it dry thoroughly.

Tar Weakens Rope.

The Rope is often tarred to protect it from the weather. This is somewhat the somewhat the protect it from the weather. This is somewhat the same characteristic, and for this reason they, too, become dangerous. Many of the limbs and branches fall, a large percentage when, there is no be. New rope may be made as pliable wind and where the atmosphere is unusually quiet, especially during October and November, after the leaves have, fallen.

Tar Weakens Rope.

The Rope is often tarred to protect it from the weather. This is somewhat doubtful practice as the acid in the desire to define what we mean. A real farmer is a person who makes his living by illing the land and who sives on the land he works. Menewho own farm lands and live in towns or cities, realing their property, or leasing it on has so far been found that will not have considered in the committed to protect it from the weather. This is somewhat doubtful practice as the acid in the desire to define what we mean. A real farmer is a person who makes his living by illing the land and who sives be only two-thirds as strong as clean, new rope.

No kind of oil or other preparation farmers and live in towns or cities, realing their property, or leasing it on has so far been found that will not be only two-thirds as strong as clean, new rope.

No kind of oil or other preparation that carried to protect it from the weather. This is somewhat the weather. This is somewhat the expression. The expression. The expression is a real farmer? We use this doubtful practice as the acid in the tar weakens the rope to such an expression. The expression is a protect in the committee astimate the real farmer.

What is a real farmer?

What is a real f

varieties when affected will visable to keep hens longer than two SEEDING MEADOWS From the standpoint of production

stonally produce good crops, but do it is not considered profitable to keep not thrive and produce as well as a hen after her second year; but if the hen is valuable as a breeder, she may be kept three or four years. You must judge by local conditions.

pensive remedy for all insects infesting the farmers' grain stored in tight bins is careful funigation with carbon bisulphide.

If the building is reasonably tight, one pound of carbon bisulphide is sufficient for every 700 cubic feet of space, or one pound for every 100 cubic feet of space, or one pound of carbon bisulphide is 100 cubic feet of space, or one pound of carbon bisulphide is 100 cubic feet of space, or one pound of carbon bisulphide is 100 cubic feet of space, or one pound of carbon bisulphide is 100 cubic feet of space, or one pound of carbon bisulphide is 100 cubic feet of space, or one pound of carbon bisulphide is 100 cubic feet

Training the Colt.

Commence handling the colt when he is no more than a week old. Be kind and gentle with him. When hitching up for the first time, don't hitch to anything that he can turn over, or that will make a racket and

scare him.

The essential factors in training are good care, daily handling, kindness and patience. Don't wait until he is two or three years old before you begin to train him, for then it is a big task. One is apt to get in a hurry to get the colt doing something and try and expect to train him in a very short time.

Small Flocks Pay.

For the encouragement of the Vir-ginia farmer who thinks keeping sheep would be a fine thing if he could carry on an extensive business, as is done on the big western ranches, we quote a Texas wool buyer, who says: "It would be a great thing for the country if every farmer owned a small flock of sheep. I buy a great deal of wool at points where there are no ranches near, the produce being grown by the farmers who keep small flocks. I have been often told by such farmers that it costs practically nothing to keep sheep on a farm. They require very little feed. They eat the weeds in the fields, and at the same time they enrich the land. I find that the owners of small flocks, as a rule, keep a better grade of sheep and the animals are healthler than are those of the large ranchmen, the wools from the farms always class-ing higher than ranch wools."

There is probably no agricultural practice regarding which there is seeding meadows and pastures. This is largely due to the fact that a stand of either clover or grass is dependent upon many factors, such as weather conditions, soil and quality of seed. The most common meadow mixture

AND PASTURES



Catch the Millers.

I have found a new and better way than to spray fruit trees—eatch the winged insects. About sunset when the blossoms are falling, and again two weeks later, I paint any old roof with a good brand of roof coating, or coal tar paint, and set a bright lantern in the middle of the roof all night. The curculio millers will come to see the light and fall into the coal tar paint, stick fast and die. In this way I have caught brown millers, white millers, lots of them and beetle bugs. They nearly covered the roof the first night and I get a lot overy night.

Set an open torch light or wood fire in the cabbage patch all night, all summer and the cabbage millers will fly into it and you will have no for the cabbage millers. Taber, Ohio, in Green's Fruit Grower.

Small Flocks Pay.

Nodules on Clover Seeding Roots.

Is that of red clover and timothy. Where these are sown together it is customary to sow the timothy in the fall and the clover the following spring, all and the clover sections, in the fall.

The term, "nurse crop," is applied to the small crop with which clovers and grasses, are frequently sown. Rye, wheat and oats are commonly used for this purpose, and are ranked for their efficiency in the order given. The function of the nurse crop is not to direction of the nurse crop with which clovers and grasses, as may be supposed, but rather to keep down the grow out and destroy the word of the nurse crop is bother, the clover and grass will always make a better growth alone than where they must compete with the grain crop. Under favorable conditions, however, one can usually get a good stand with the nurse crop, and some returns may be had from the land while the meadow is getting started. Where timothy and clover are sown with a nurse crop the first crop of hay is usually obtained the year following the harvesting of the nurse crop, although on the best lands a fair crop of clover may sometimes be cut the same year they are seeded. The first crop is usually almost pure clover, the second about an equal mixture of clover and timothy, and if left a third year, the crop will be almost pure timothy. Where sown alone, either in fall or spring, a fair crop of hay, although frequently more or less weedy, may be obtained the first year.

A stand of timothy may be maintained for several years, but red clover is a biennial, and most plants die at the end of the second year, especially if allowed to seed.

BREADSTUFF SALES HAVE BANNER PERIOD

tween 10,000,000 and 12,000,0 Bushels Taken in North America in Past Six Days.

[Special to The Times-Dispatch.]
CHICAGO, October 25.—The banner
period in the sales of breadstuffs for
export was seen last week. It was
variously estimated that between 10,000,000 and 12,000,000 bushels were
taken in North America in the six days

closing on Saturday.

A large trade was done by Chicago houses via Gulf ports, and they also made big sales via Atlantic ports, as well as considerable wheat which is to go out via Canada. The business was Democrats are working hard to get merely a matter of the supplies available. Every importing country abroad bought freely not only of wheat, but of flour as well.

son in Virginia.

This flock received no special attention, so far as feed and care were a contrained to nurse them if possible, if not the thing they were well looked, after. The ewest that did not take to their lambs in turnally were induced to nurse them if possible, if not, then the bottle, but in the entire flock or thirty-sit lambs there were only two that had to be raised by hand.

The owner of this flock tells may be that the that the thirty-five ewes and one buck is sheared an verage of six pounds each of the farm that the work are to large of the demand or the introduced to nurse them if possible, if not the the bottle, but in the entire flock or thirty-sit lambs there were only two that had to be raised by hand.

The owner of this flock tells may be the thirty-five ewes and one buck is sheared an verage of six pounds each. The owner of the flow in the thirty-five ewes and one buck is sheared an verage of six pounds each. The owner of the least the pound, 30 cents the pound, 564-80; total, 1255-80.

These sheep were alloued the run of a few weeks or possible to the pound of wool at the head of the farm the major part of the year, and a during the winter season when the wester was very severe the little flock was given in a raison of thay, but the head and the pound of wool at the pound of the pound o

made up of some of the nervy speculators from down-State, are the larger holders here, and believe much higher prices will be seen because considerable new corn has already been fed and the number of hogs in the interior is quite large. The weekly receipts at primary markets last week were 2.035,000 bushels, compared with 3,877,000 bushels for a like period last year.

Oats were active on export account, with the movement big, and this demand likely, will continue for an in-

mand likely will continue for an in-definite period. Western receipts last week were 5,925,000 bushels, which was 1,900,000 bushels smaller than the pre-vious week, but was 1,300,000 bushels in excess of the corresponding period last year. last year.

REVIEW OF COTTON

NEW ORLEANS, October 25. price of cotton again dropped to lower evels last week, middling spots clos-ing at 6½ cents a pound, the lowest of the week, and the lowest in several the week, and the lowest in several years, while January contracts at one time stood at 6.95, and closed at 7 cents. In the interior prices at many markets

A factor that contributed not a little greater difference of opinion among to the decline was the refusal of infarmers than that of the methods of seeding meadows and pastures. This largely due to the fact that a stand neutral ports. England forbade English insurance companies taking such risks, it being understood that the ground for this attitude was the claim that much cotton was finding its way to Germany through neutral countries.

The influence of this stand was to be seen in the week's exports, which were smaller than for the preceding week, the figures being \$2,195 bales, against \$7.835 last week and \$45.845 the corresponding to the preceding week, the figures being \$2,195 bales, against \$7.835 last week and \$45.845 the corresponding to the preceding week, the figures being \$2,195 bales, against \$7.835 last week and \$45.845 the corresponding to the preceding week. \$7,836 last week and 345,845 the cor-

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for the season now amount to 397,475 bales, against 2,079,535 bales during the same period last year, and 1,871,275 during the same period two years ago.

The conference this week between loading financiers of the United States and England will be watched by the cotton trade with great interest, because of the growing belief that they will lead to plans that will accompilsh the reopening of the cotton future marthe reopening of the cotton future mar-

CAMPAIGN IN PROGRESS.

Democrats in Amherst Working Hard to Get Full Vote.

out a full vote at the coming November election so as to keep the majority for

MILLIONS OF FISH EGGS

H. M. Smith Submits Report of Culture Division Activities for 1915.
WASHINGTON, October 25.—What to The lard market is attracting attention, not only of the speculators known as professionals, but of foreigners and packers throughout the country. It is generally believed in Chicago that goodly amounts of lard have been sold here for export, and the opinion is voiced that the shorts in all of January deliveries will experience more or less trouble in evening up their position without meeting heavy losses.

WASHINGTON, October 25.—What to the ordinary individual seem enormous quantities of fish cggs have been collected for the fiscal year 1915 by the throughout the report of Hugh M. Smith, commissioner of fisheries, to Secretary Redeled, of the Department of Commerce. The figures are: chinook salmon, 21.—S14,714; blueback salmon, 47,577,000; humpback salmon, 5,618,000; dog salmon, 17,815,000; black spotted trout, 8,861,000; shad, 695,000; lobster, 14.—907,000.

907,000.

The fish culture stations on the Pacific coast have collected and transferred from Volcano, Cal., 486 adult golden trout for use in connection with the bureau's exhibit at the Panama-Pacific Exposition. These fish are now being held in a tank constructed especially for the purpose.

WIPED OUT IN NEW YORK

Gratifying Feature of Week Made Pos-sible, However, Only by Trade

NEW YORK, October 25 .- One of the nost gratifying features of the past week in financial circles was the wip-ing out of the deficit in cash reserves by New York banks and the substitution of an excess amounting to about \$8,400,000. These institutions reported a deficit of almost \$48,000,000 two weeks after the commencement of the

European war. It is clear, however, that it is trade recession that is sending cash into bank reserves in increasing volume. The money market relaxes correspond-

Dr. Hall-Quest, processor of the University of Virgordal psychology at t goods for delivery on contract are held up by the inability of mills to hedge on cotton purchases, or to receive assurances of securing cotton at prices demanded by the low bids made for the goods.

heavy goods for long future delivery at prices based on 7-cent cotton, but it has been of a limited character. Duck has been selling more freely for home and foreign consumption. Brown sheet-ings and gray goods are at very low prices, but are not being purchased well. Prints and colored goods are be-

well. Prints and colored goods are being held at steady prices through the inability to secure additional supplies of dyestuffs.

Jobbers are not operating for future delivery on many goods, partly because of financial conditions, and, again, because of uncertainty concerning values. A partial revision has been made on bleached cottons. The irregularity of values continues a marked feature of the cloth markets, and there has been an increasing volume of curtailment re-

the cloth markets, and there has been an increasing volume of curtailment reported in manufacturing centres. Prices are as follows:

Print cloths 28-inch, 64x64's, 3 cents; 64x60's, 2% cents; 38-inch, 64x64's, 3% cents; brown sheetings, Southern standards, 7% cents; 3-nims, 9-ounce, 13% cents; tickings, 8-ounce, 13 cents; standard prints, 5% cents; staple ginghams, 6% cents; dress ginghams, 9% cents.

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